

Corning Vycor® 7913 UV-Transmitting Glass

Category : Ceramic , Glass , Optical , Oxide , Silicon Oxide

Material Notes:

Special Features: Superior optical quality Tight dimensional control Thermal and chemical properties ideally suited to high temperatures. Excellent thermal shock resistance Typical Applications: Halogen lamps Germicidal lamps Defroster tubing Heater sheath Toaster tubing Also available crushed/powdered for sealing and other uses. Information provided by Corning Incorporated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Corning-Vycor-7913-UV-Transmitting-Glass.php

Physical Properties	Metric	English	Comments
Density	2.18 g/cc	0.0788 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Knoop	487	487	KHN¹⁰⁰
Modulus of Elasticity	66.2 GPa	9600 ksi	
Poissons Ratio	0.19	0.19	
Shear Modulus	28.0 GPa	4060 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	0.750 µm/m-°C	0.417 µin/in-°F	
	@Temperature 0.000 - 300 °C	@Temperature 32.0 - 572 °F	
Specific Heat Capacity	0.750 J/g-°C	0.179 BTU/lb-°F	
Thermal Conductivity	1.38 W/m-K	9.57 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	900 °C	1650 °F	Continuous
Softening Point	1530 °C	2790 °F	10^{7.6} Poise
Annealing Point	1020 °C	1870 °F	10¹³ Poise
Strain Point	890 °C	1630 °F	10¹⁴ Poise

Optical Properties	Metric	English	Comments
Refractive Index	1.458	1.458	
	@Wavelength 589.3 nm	@Wavelength 589.3 nm	
Transmission, Visible	91 %	91 %	tubing

Optical Properties	Metric	English	Comments
	92 %	92 %	tubing
	@Thickness 1.20 mm, Wavelength 400 nm	@Thickness 0.0472 in, Wavelength 400 nm	
	92 %	92 %	tubing
	@Wavelength 400 - 700 nm, Thickness 1.20 mm	@Wavelength 400 - 700 nm, Thickness 0.0472 in	
IR Transmittance	90 %	90 %	tubing
	@Thickness 1.20 mm, Wavelength 2500 nm	@Thickness 0.0472 in, Wavelength 2500 nm	
	92 %	92 %	tubing
	@Thickness 1.20 mm, Wavelength 1200 nm	@Thickness 0.0472 in, Wavelength 1200 nm	
UV Transmittance	18 %	18 %	tubing
	@Thickness 1.20 mm, Wavelength 220 nm	@Thickness 0.0472 in, Wavelength 220 nm	
	65 %	65 %	tubing
	@Thickness 1.20 mm, Wavelength 240 nm	@Thickness 0.0472 in, Wavelength 240 nm	
	85 %	85 %	tubing
	@Thickness 1.20 mm, Wavelength 300 nm	@Thickness 0.0472 in, Wavelength 300 nm	

Component Elements Properties	Metric	English	Comments
SiO2	96 %	96 %	

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